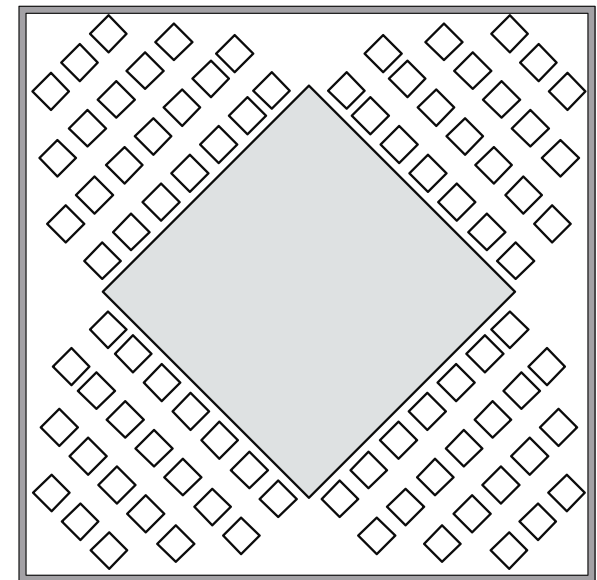
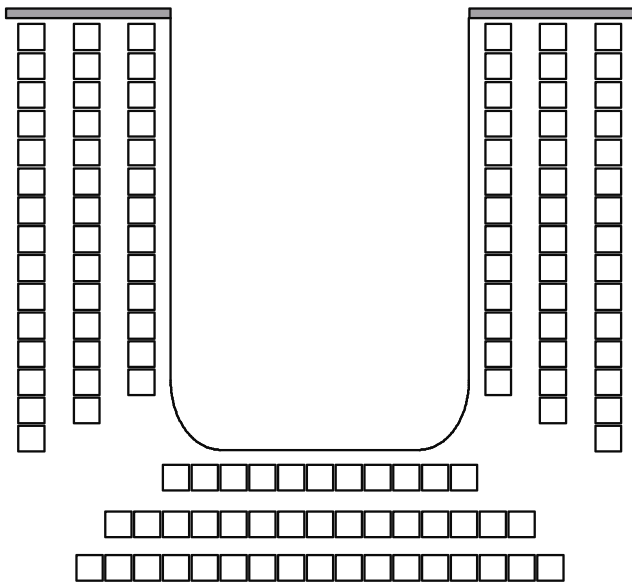
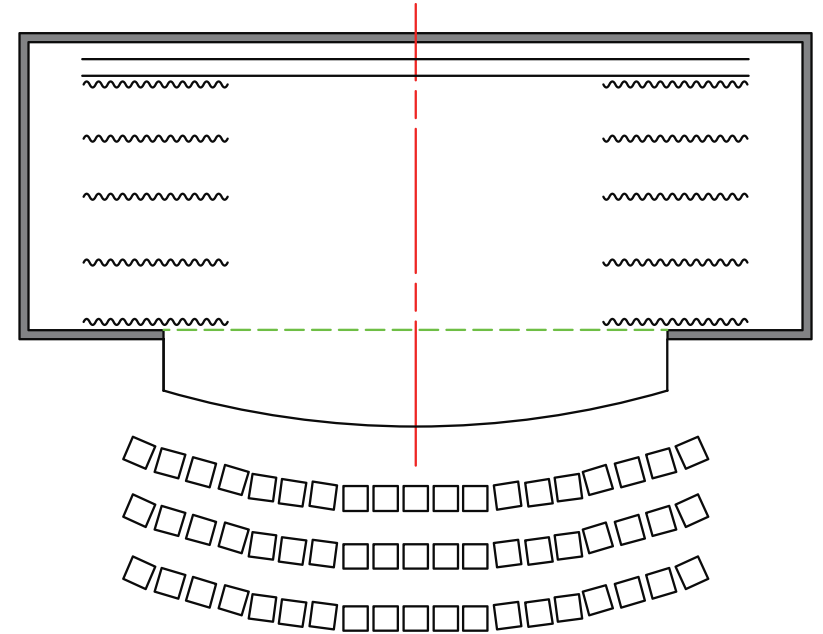
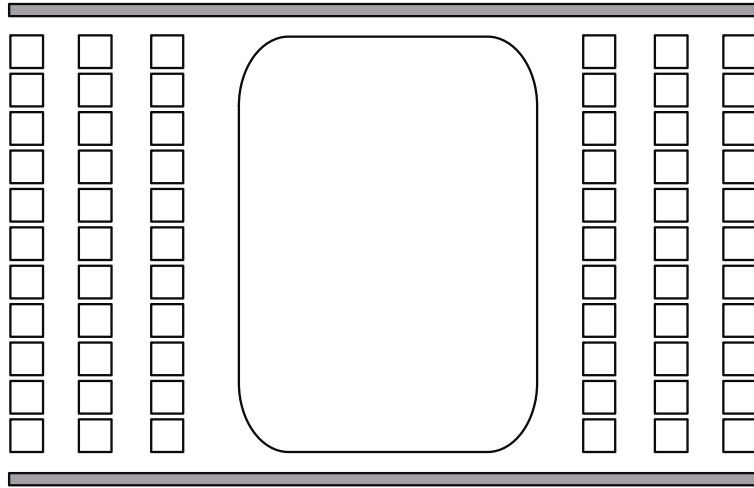
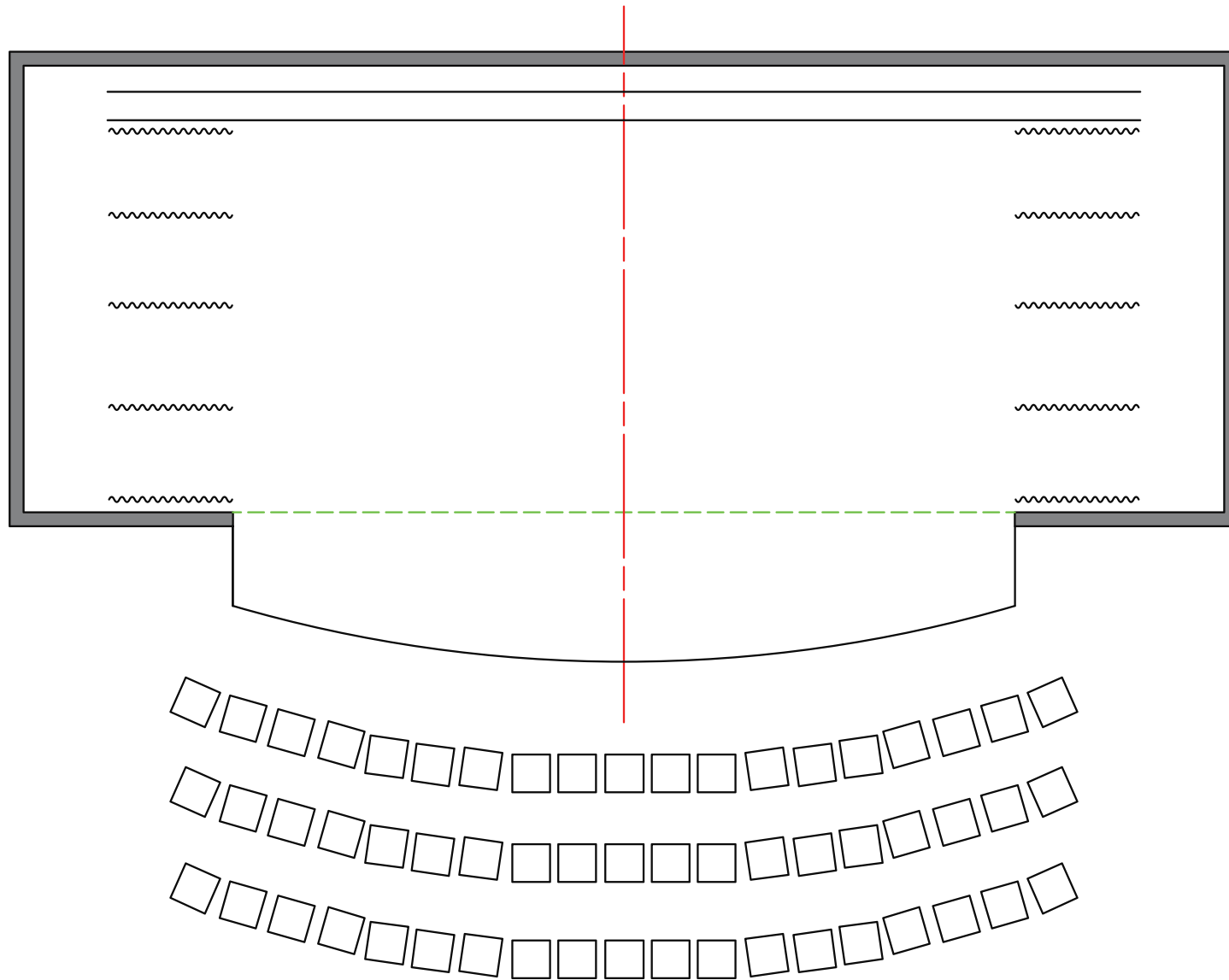


## TYPES OF THEATRES



## PARTS OF THE THEATRE



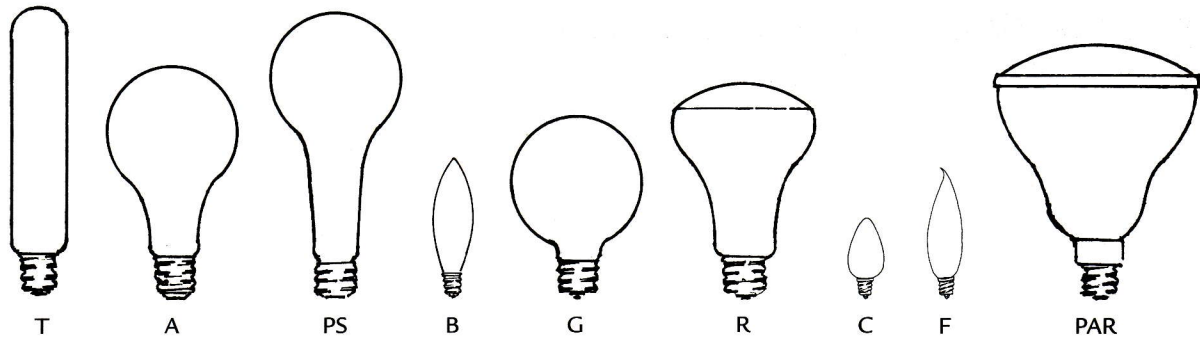


Figure 4.12 Common incandescent lamp shapes.

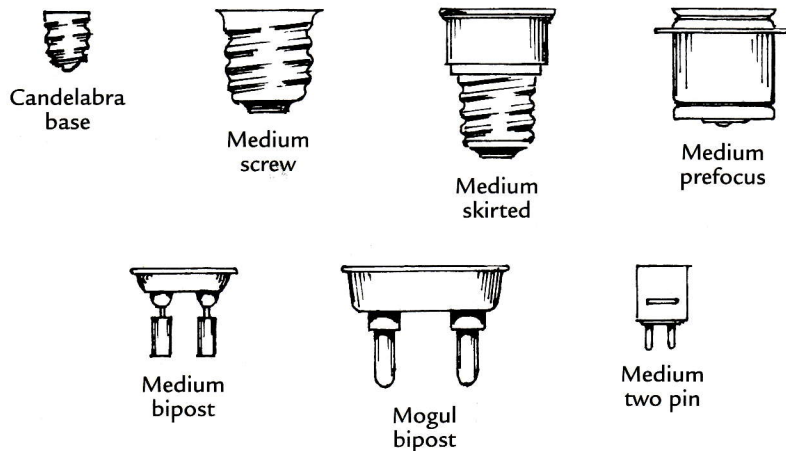
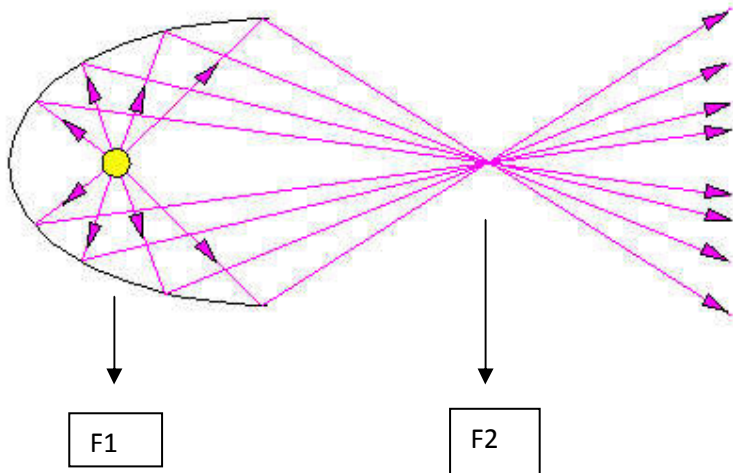


Figure 4.13 Typical lamp bases.

**Bulb** The bulb is the Pyrex or synthetic quartz envelope that encases the filament and acts as a container for the gas-filled atmosphere of the lamp. The shape and size of the bulb are determined by the position and shape of the filament, the burning position of the lamp within the lighting instrument, and the heat dissipation requirements of the lamp. Figure 4.12 illustrates common incandescent bulb shapes. Bulb sizes vary, depending on individual lamp requirements.

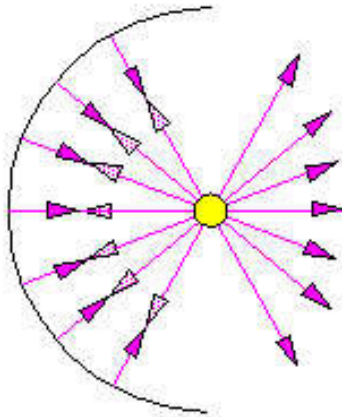
**Base** The lamp base secures the lamp in the socket and provides the electrical contact points between the socket and the filament. There are several styles of lamp base, as illustrated in Figure 4.13. Generally, large, high-wattage incandescent lamps have the larger bases. Figure 4.13 shows not only the different bases but also the relative size relationship that each base has to the others.

## Reflectors Used in Theatrical Lighting Instruments



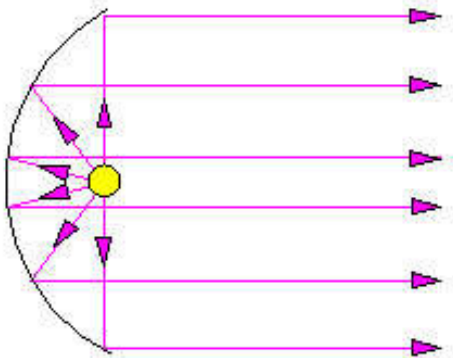
Ellipsoidal Reflector

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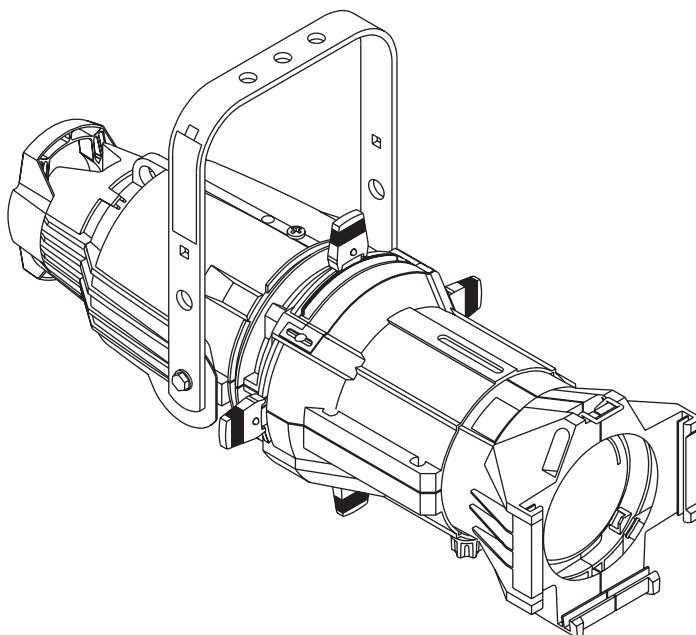
Spherical Reflector

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Parabolic Reflector





## SPECIFICATIONS

### Ellipsoidal lighting fixture

**PHYSICAL** Die cast aluminum construction  
 Rotating shutter assembly  $\pm 25^\circ$   
 20 gauge stainless steel shutters in a tri-plane assembly  
 Interchangeable lens tubes with smooth-running  
 teflon guides provide six user-fit field angle options  
 Thermally insulated rear handle  
 High impact, thermally insulated knobs and  
 shutter handles  
 Two accessory slots, and a top mounted, gel  
 frame retainer  
 Steel yoke with two mounting positions  
 Positive locking single-clutch fixture body  
 Slot for glass or stainless steel patterns  
 Slot with sliding cover for motorized pattern devices  
 or optional iris  
 UL and cUL listed

### ELECTRICAL 115-240V, 50/60Hz

High temperature 3-conductor 36" leads in a glass  
 fiber outer sleeve  
 Supports ETC Dimmer Doubling™ technology

### LAMP

750W maximum  
 HPL — compact tungsten filament contained in a  
 krypton-filled quartz envelope (see table for suitable  
 lamp types)  
 Patented filament geometry makes for extremely  
 efficient light collection and transmission  
 Integral die cast aluminum heat sink lamp base

### OPTICAL

Projector-quality, high contrast aspheric lens  
 Faceted borosilicate reflector with multi-layer  
 dichroic coating  
 95% of visible light reflected through the optical train  
 90% of infrared radiation (heat) passes through  
 the reflector  
 Reflector secured with anti-vibration shock mounts  
 Lens(es) secured with anti-vibration shock mounts  
 Tool free lamp centering (X/Y) and peak/flat (Z)  
 adjustment knobs  
 Positive locking X, Y and Z adjustments, unaffected  
 by relamping  
 Beam edge continually adjustable hard-to-soft  
 Interchangeable lens barrels permit selection of 5°, 10°,  
 19°, 26°, 36°, and 50° field angles

## ORDERING INFORMATION

### Source Four

Model#	Description
450	50° ellipsoidal (black)
450-1	50° ellipsoidal (white)

ETC Source Four are supplied with C-clamp, color frame  
 and 3' (96cm) leads as standard

### Connector Designation

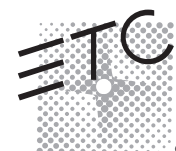
Use Suffixes below to specify Factory-Fitted Connector type

Model#	Description
A	Parallel-blade U-ground connector
B	Two-pin and ground, 20 amp connector
C	Grounded, 20 amp, twistlock connector
M	Dimmer Doubling™ Connector (NEMA L515P)

### Source Four Accessories

Model#	Description
450LT	50° lens tube with lens installed (black)
450LT-1	50° lens tube with lens installed (white)
400CC	C-clamp (included)
400PH-A	Pattern holder (A size)
400PH-B	Pattern holder (B size)
400PH-G	Glass pattern holder
400SC	Safety cable
400RS	Drop-in iris
400CF	Colorframe (6.25") (included)
400DN	Donut (6.25")
400TH	Top hat
400HH	Half hat
400GE	Gel extender
407GE	Conical gel extender
407CF	7.5" Square color frame
400FB	Source Four Fixture Body, Single Clutch

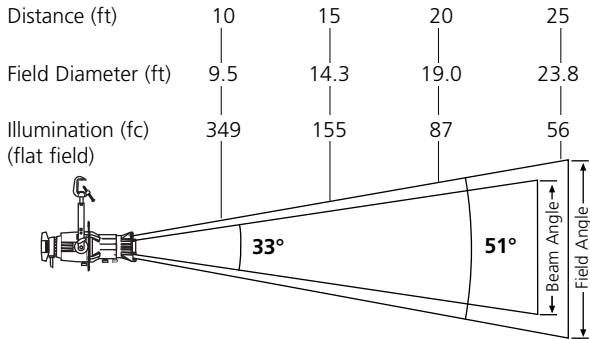
**Note:** For colors other than black or white, please call ETC.



### PHOTOMETRIC

All photometric data in this document was prepared using standard production fixtures, and the Prometric™ CCD measurement system. Fixtures were adjusted for cosine distribution, and were tested with a calibrated HPL 750/115V 21,900 lumens lamp at its rated voltage. All data were normalized to nominal lamp lumens.

#### 50°



For illumination with any lamp, multiply the candlepower of a beam spread by the multiplying factor (mf) shown for that lamp.

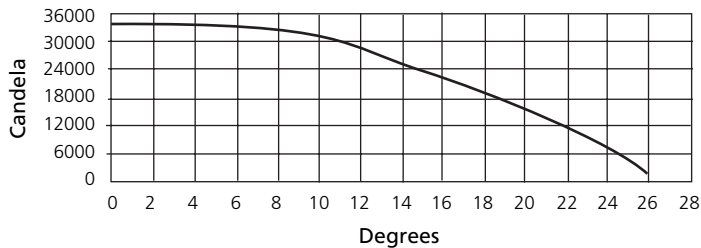
To determine illumination in footcandles or lux at any throw distance, divide candlepower by distance squared.

For Field diameter at any distance, multiply distance by .95

For Beam diameter at any distance, multiply distance by .60

**Metric Conversions:** For Meters multiply feet by .3048  
For Lux multiply footcandles by 10.76

#### Candlepower Distribution Curve (cosine)



#### Source Four 50° cosine

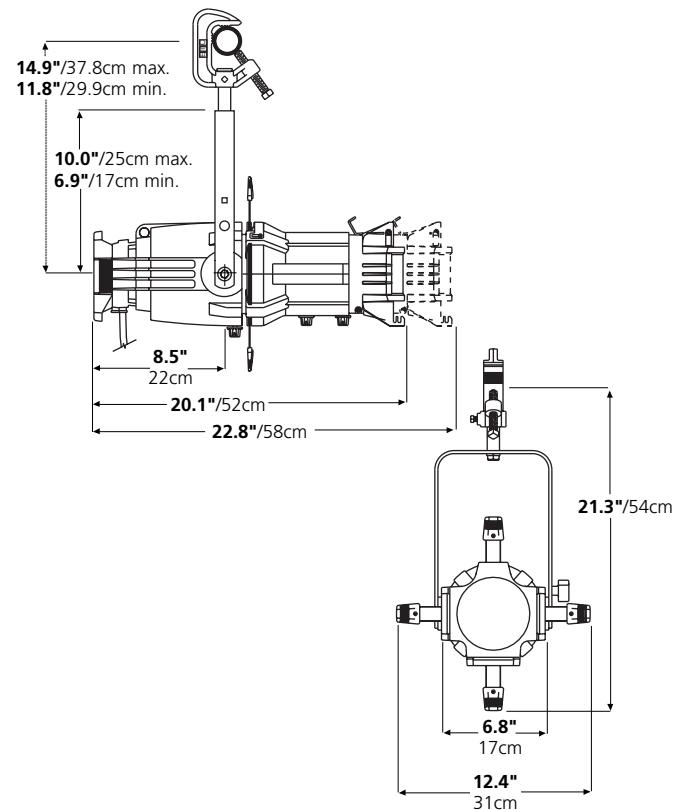
Degree	Candlepower	Field Lumens	Beam Lumens	Efficiency
50°	34,900	12,400	8,220	56.6%

### PHYSICAL

Lamp code	Watts	Volts	Initial Lumens	Color Temp.	Average Rated Life	MF
HPL 750/115	750	115	21,900	3,250°	300	1.00
HPL 575/115	575	115	16,520	3,250°	300	0.87
HPL 575/115X	575	115	12,360	3,050°	2000	0.66
HPL 575/120	575	120	16,460	3,250°	300	0.87
HPL 375/115	375	115	10,540	3,200°	300	0.55
HPL 375/115X	375	115	8,060	3,000°	1000	0.43
HPL 550/77*	550	77	16,170	3,250°	300	0.87
HPL 550/77X*	550	77	12,160	3,050°	2000	0.66
HPL 750/230	750	230	19,400	3,200°	300	0.90
HPL 750/240	750	240	19,400	3,200°	300	0.90
HPL 575/230	575	230	14,900	3,200°	400	0.76
HPL 575/240	575	240	14,900	3,200°	400	0.76
HPL 575/230X	575	230	11,780	3,050°	1500	0.61
HPL 575/240X	575	240	11,780	3,050°	1500	0.64
HPL 375/230X	375	230	7,800	3,050°	1000	0.38
HPL 375/240X	375	240	7,800	3,050°	1000	0.38

\*77V lamps are intended for use with the ETC Dimmer Doubler™.

**Warning:** Use of lamps other than HPL will void UL/cUL safety approval and product warranty. Source Four is rated for 750W maximum.



#### Source Four Weights

Model	Fixture Weight*		Shipping Weight	
	lbs	kgs	lbs	kgs
50°	14	6.3	20	9.1

\* Add 2.3 lbs for C-clamp



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**Europe** ■ Unit 5, Victoria Industrial Estate, Victoria Road, London W3 6UU, UK ■ Tel: +44 (0)20 8896 1000 ■ Fax: +44 (0)20 8896 2000

**Asia** ■ Room 605-606, Tower III Enterprise Square, 9 Sheung Yuet Road, Kowloon Bay, Kowloon, Hong Kong ■ Tel: +852 2799 1220 ■ Fax: +852 2799 9325

**Web:** www.etcconnect.com ■ **Email:** (US) mail@etcconnect.com ■ (UK) mail@etcconnect.com ■ (Asia) mail@etcconnect.com

Source Four® products protected by U.S. Patent Numbers 5,268,613, 5,345,371, 5,544,029, 5,446,637 and 5,775,799; Japanese Patent Number 2,501,772; US and International Patents Pending.  
Copyright © 2002 ETC, Inc. All Rights Reserved. All product information and specifications subject to change. 7060L1010 Rev. C Printed in USA 05/02



## Leko 40 (6" x 9") 1000W Profile



A wider angled ellipsoidal reflector spotlight with 45° cut-off, using dual 6" diameter lenses and focal length 9".

Supplied with 1000W 240V CP77 lamp (220V may be specified), heat resisting fibre colour frame and 1.5 metres of fitted power cable with 15 Amp plug (alternatively open ends may be specified)

Weight : 6.9kg

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[Back to Strand Archive](#)



Email comments to  
[jon@strandarchive.co.uk](mailto:jon@strandarchive.co.uk)

Last modified : 20 November, 2005





### FRESNELITE 6" & 8" 500, 750, 1000/2000W

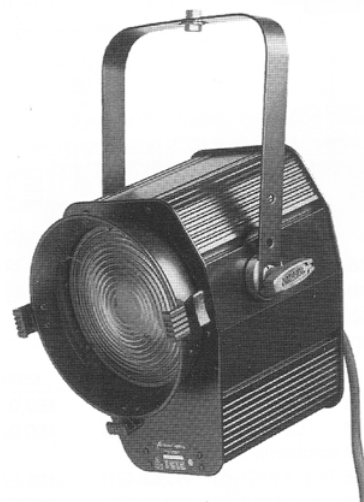
- ☐ High-output Fresnels
- ☐ Lightweight extruded aluminum body
- ☐ 1000W and 2000W
- ☐ Vented lens door
- ☐ Smooth and concise spot-to-flood adjustment
- ☐ All handles thermally insulated
- ☐ Barndoor optional extra
- ☐ Bi-post socket version available. Ideal for small television studios particularly low-power, educational and in-house commercial and industrial facilities
- ☐ Supplied in black finish with mounting yoke with C-clamp, and 3' (0.9m) power cable with bare leads or connector specified
- ☐ Can be used for 220V operation (*Consult factory*)
- ☐ UL cUL listed



6" Fresnel

#### Weights and Dimensions

	Fresnelite 6"		Fresnelite 8"	
Weight	10.5lbs	(4.8kg)	17.0lbs	(7.7kg)
Length	12.1"	(307mm)	14.4"	(366mm)
Width	10.2"	(259mm)	12.7"	(323mm)
Height	12.3"	(312mm)	16.7"	(424mm)
Packed weight	14.0lbs	(6.4kg)	21.0lbs	(9.5kg)
Packed length	15.5"	(394mm)	18.25"	(463.5mm)
Packed width	15.5"	(394mm)	18.25"	(463.5mm)
Packed height	15.5"	(394mm)	18.75"	(476mm)
Color Frame size	Fresnelite 6"	7.5" x 7.5" (190 x 190mm)		
	Fresnelite 8"	10 <sup>1</sup> / <sub>8</sub> " x 10 <sup>1</sup> / <sub>8</sub> " (257 x 257mm)		

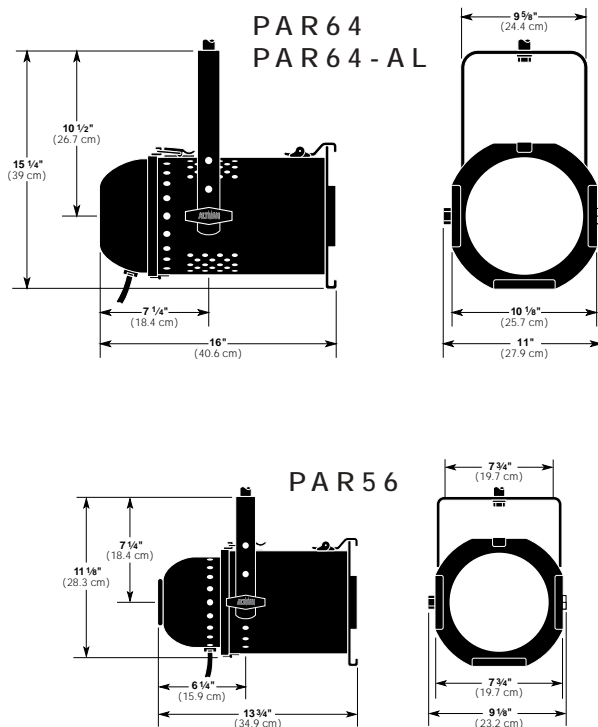


8" Fresnel

Fixture Type: **PAR CAN**

Altman PARS are low cost, versatile luminaires designed for diverse applications. Intensities and beam spread are a function of the lamp selected for use in the fixture. One unit can serve multiple purposes simply by changing the lamp. The smaller size of the PAR56 offers maximum flexibility, while the PAR64's optional Par56/64 adapter ring allows for the use of the Par56 lamps. With an oval shaped beam and a lamp range from 300 to 500 watts for the PAR56, and 300 to 1000 watts for the PAR64, they are ideal for use in concerts, nightclubs, television and film remotes and architectural applications where maximum flexibility is desired in a small compact package. The PAR64-AL is identical to the PAR64 with the exception that it is constructed of .050 gauge rolled aircraft aluminum to minimize weight without sacrificing durability.

Specifications subject to change without notice



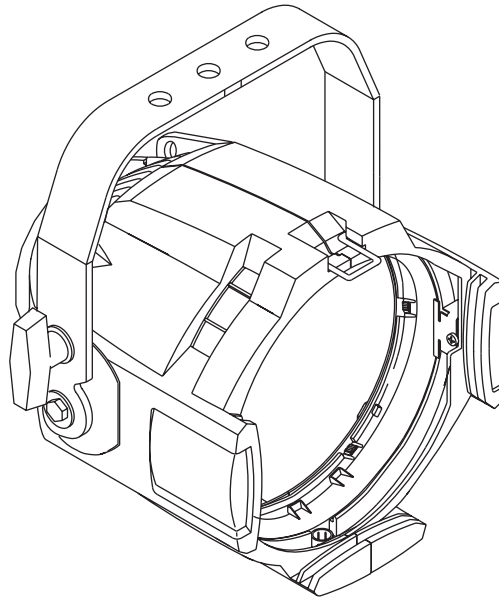
300-1000 WATT **PAR 64**

300-1000 WATT **PAR 64 - AL**

300-500 WATT **PAR 56**

### Features

- PAR56 and PAR64 constructed of rugged sheet steel
- PAR64-AL constructed of rolled aircraft aluminum
- 360° lamp rotation
- Hinged rear cover for easy lamp access
- Spring loaded accessory holder safety latch
- Mogul end prong socket
- 3 position yoke adjustment
- Three 36" Teflon lead wires
- Up to 25' Hi-Temp rubber cable optional
- Plated steel color frame
- Wire mesh safety screen included with Par64 & Par64-AL
- PAR56 is U.L. and c.U.L. listed for 500 watts
- PAR64 and PAR64-AL are U.L. and c.U.L. listed for 1000 watts
- Made in the USA



### SPECIFICATIONS

#### Open reflector lighting fixture

PHYSICAL	Die-cast aluminum
	Tool free access to the reflector and lens
	High-impact, thermally insulated knobs
	Sealed reflector housing
	Reflector temperature control through integral heat sink fins
	Gel frame holders with two accessory slots
	Top-mounted, gel-frame retainer
	Steel yoke with two mounting positions
	Positive locking yoke clutch
	UL and cUL listed
ELECTRICAL	115-240V, 50/60Hz
	High-temperature three-conductor 36" leads in a glass fiber outer sleeve
	Supports ETC Dimmer Doubling™ technology
LAMP	HPL — compact tungsten filament contained in a krypton/xenon-filled quartz envelope (see table for suitable lamp types)
	750W maximum
	Patented filament geometry makes for extremely efficient light collection and transmission
	Integral die-cast aluminum heat sink lamp base
LENSES	Four heat resistant, molded borosilicate glass lenses supplied with each unit: Very Narrow Spot (VNSP), Narrow Spot (NSP), Medium Flood (MFL) and Wide Flood (WFL).
	Tool free lens changing
	Thermally insulated lens ring
OPTICAL	Modified parabolic and multifaceted reflector
	Computer designed reflector facets molded directly into heat sink casting, finished with an enhanced aluminum deposition process, and polished for maximum reflectance
	Metal Cold Mirror (MCM) also available

### ORDERING INFORMATION

#### Source Four ParEA

Model #	Description
PAR-EA	Source Four PAR Enhanced Aluminum (Black)
PAR-EA-1	Source Four PAR Enhanced Aluminum (White)

ETC Source Four PAR EA are supplied with 4 lens set: VNSP, NSP, MFL, WFL; color frame and 3' (96cm) lead as standard

#### Connector Designation

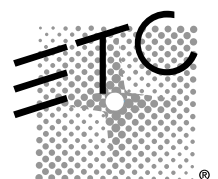
Use Suffixes below to specify Factory-Fitted Connector type

Model#	Description
A	Parallel-blade U-ground connector
B	Two-pin and ground, 20 amp connector
C	Grounded, 20 amp, twistlock connector
M	Dimmer Doubling™ connector (NEMA L515P)

#### Source Four PAR EA Accessories

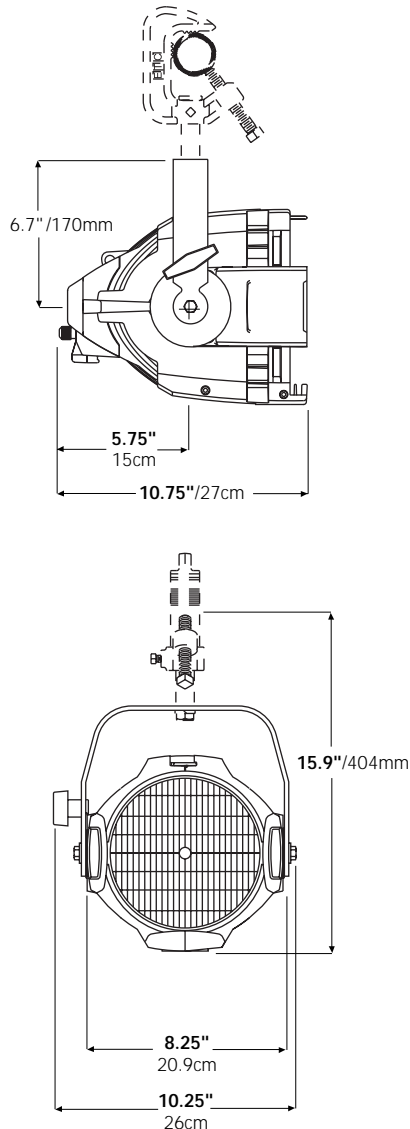
Model#	Description
407CF	Color frame (7.5") (included)
400SC	Safety Cable
400CC	C-Clamp
400-VNSP	Very Narrow Spot lens
400-NSP	Narrow Spot lens
400-MFL	Medium Flood lens
400-WFL	Wide Flood lens
400-LS4	Set of four Source Four PAR lenses (VNSP, NSP, MFL, WFL)
400PTH3	Top hat, 3"
400PTH6	Top hat, 6"
400PHH	Half hat
400XBTH	Cross baffle top hat
400PGE3	Gel extender, 3"
400PGE6	Gel extender, 6"
400BD	Barn door
400L	Egg crate louver
400WB	Weighted base

**Note:** For colors other than black or white, please call ETC



## PAR-EA Series

## PHYSICAL



## Source Four PAR EA Weights

Model	Fixture Weight*		Shipping Weight	
	lbs	kgs	lbs	kgs
PAR EA	7.5	3.4	12.8	5.8

\*Add 2.3 lbs for C-clamp

## PHYSICAL

Lamp code	Watts	Volts	Initial Lumens	Color Temp.	Average Rated Life	MF
HPL 750/115	750	115	21,900	3,250°	300	1.00
HPL 575/115	575	115	16,520	3,250°	300	0.87
HPL 575/115X	575	115	12,360	3,050°	2000	0.66
HPL 575/120	575	120	16,460	3,250°	300	0.87
HPL 375/115	375	115	10,540	3,200°	300	0.55
HPL 375/115X	375	115	8,060	3,000°	1000	0.43
HPL 550/77*	550	77	16,170	3,250°	300	0.87
HPL 550/77X*	550	77	12,160	3,050°	2000	0.66
HPL 750/230	750	230	19,400	3,200°	300	0.90
HPL 750/240	750	240	19,400	3,200°	300	0.90
HPL 575/230	575	230	14,900	3,200°	400	0.76
HPL 575/240	575	240	14,900	3,200°	400	0.76
HPL 575/230X	575	230	11,780	3,050°	1500	0.61
HPL 575/240X	575	240	11,780	3,050°	1500	0.64
HPL 375/230X	375	230	7,800	3,050°	1000	0.38
HPL 375/240X	375	240	7,800	3,050°	1000	0.38

\*77V lamps are intended for use with the ETC Dimmer Doubler™.

**Warning:** Use of lamps other than HPL will void UL/cUL safety approval and product warranty. Source Four PAR EA is rated for 750W maximum.



## Electronic Theatre Controls

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**International** • 3030 Laura Lane Middleton, WI 53562 • Tel: (+1) 608 831 4116 • Fax: (+1) 608 836 1736 • Toll free: 800 688 4116 • Toll free fax: 800 555 8912

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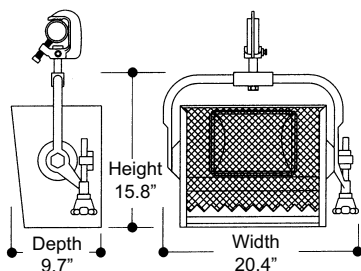
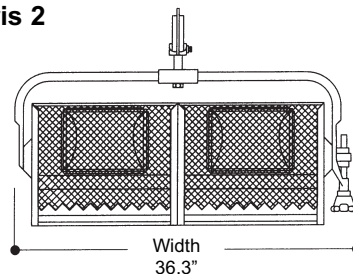
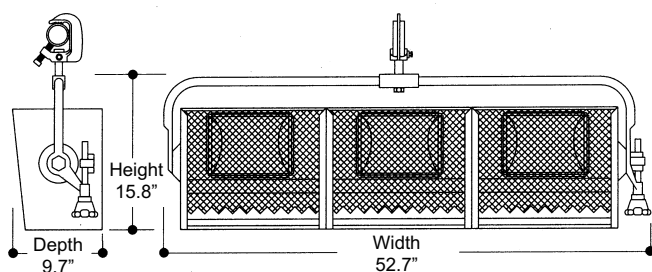
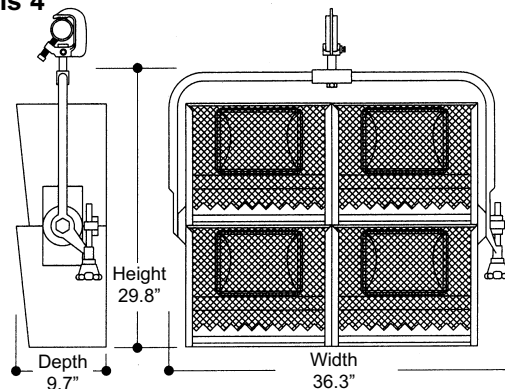
Source Four™ products protected by U.S. Patent Numbers: 5,268,613, 5,345,371, 5,544,029 and 5,446,637, Japanese Patent Number: 2,501,772. US and International Patents Pending.



# IRIS Pole Operation

## 1000W, 1500W

- ☐ Top-mounting cyclorama lighting range
- ☐ Suitable for TV studio motion picture sound stages and theatrical cycloramas up to 23' high
- ☐ Exceptionally even high intensity beam distribution
- ☐ Wide range of versions including split yoke for Iris 2 and Iris 4
- ☐ Black finish to blend with studio roof
- ☐ Supplied with wire guard, color frame, mounting yoke and power cable

**Iris 1****Iris 2****Iris 3****Iris 4**

### Weights & Dimensions

	Iris 1	Iris 2 (Horizontal)	Iris 2 (Vertical)	Iris 3	Iris 4
Weight	18 <sup>3</sup> / <sub>4</sub> lb	34 lb	34 lb	49 <sup>1</sup> / <sub>2</sub> lb	62 <sup>3</sup> / <sub>4</sub> lb
Depth	9 <sup>3</sup> / <sub>4</sub> "	9 <sup>3</sup> / <sub>4</sub> "	9 <sup>3</sup> / <sub>4</sub> "	9 <sup>3</sup> / <sub>4</sub> "	9 <sup>3</sup> / <sub>4</sub> "
Width	20 <sup>1</sup> / <sub>4</sub> "	36 <sup>1</sup> / <sub>4</sub> "	20 <sup>1</sup> / <sub>4</sub> "	52 <sup>3</sup> / <sub>4</sub> "	36 <sup>1</sup> / <sub>4</sub> "
Height	15 <sup>3</sup> / <sub>4</sub> "	15 <sup>3</sup> / <sub>4</sub> "	30"	15 <sup>3</sup> / <sub>4</sub> "	30"
Color frame size	16" x 12 <sup>1</sup> / <sub>4</sub> " (with safety mesh)				

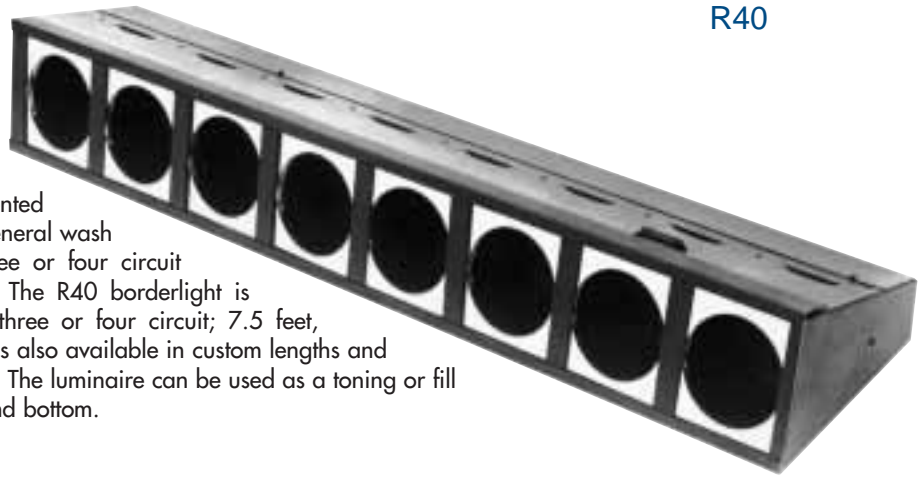
# STRIPLIGHT

R40

## Fixture Type:

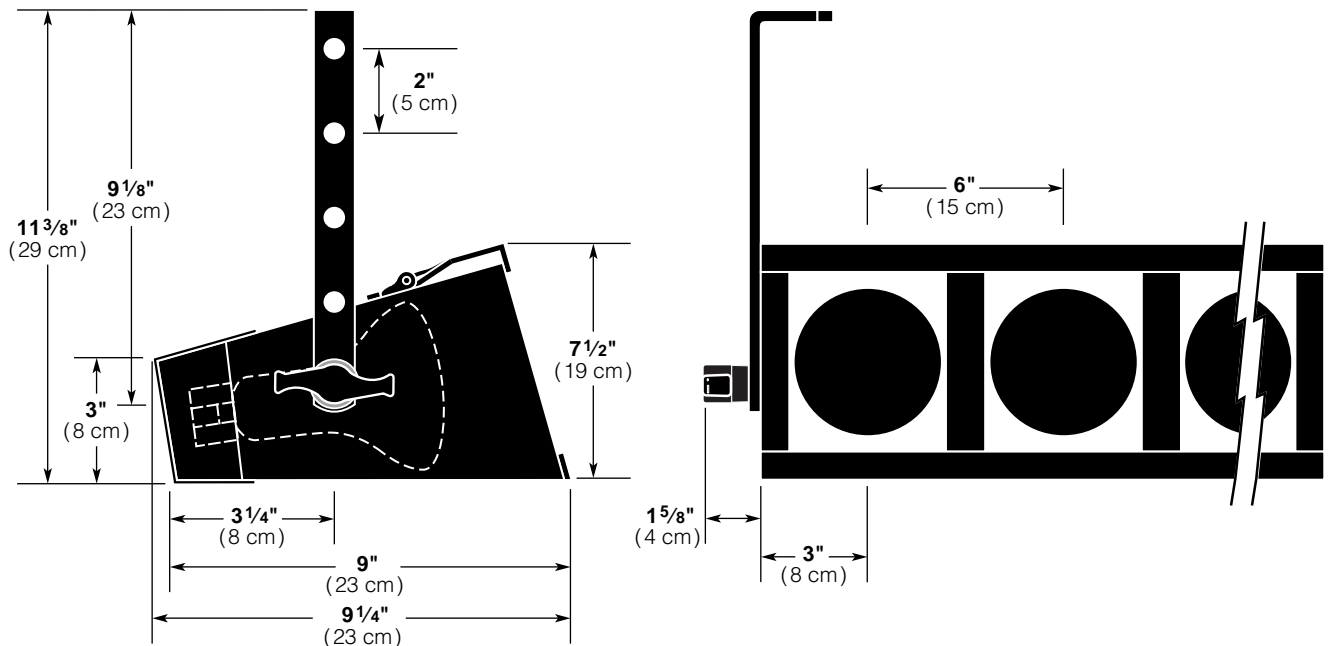
The R40 borderlight is a multi-lamp, compartmented striplighting luminaire designed for use as a general wash of light. It is available wired for either three or four circuit operation for color separation or blending. The R40 borderlight is manufactured in portable lengths of 6 feet, three or four circuit; 7.5 feet, three circuit; and 8 feet, four circuit. The R40 is also available in custom lengths and custom circuitry with sockets on 6 inch centers. The luminaire can be used as a toning or fill light or for cyclorama lighting from both top and bottom.

Specifications subject to change without notice



## 2400 WATTS Per Circuit PAR38/R40 BORDERLIGHT Features

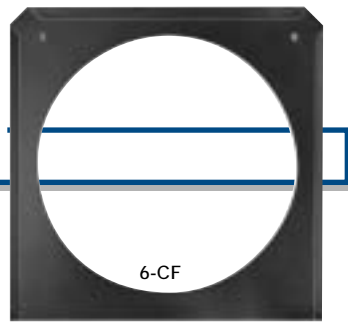
- Rugged 20 gauge steel housing
- Compartmented for color separation
- 3 and 4 circuit portable units have feed through wiring
- Medium screw base sockets on 6 inch centers
- Hanging hardware included
- Combination glass roundel frames included
- Spring loaded color frame holder
- Three 36" Teflon lead wires per circuit on portable units
- U.L. and c.U.L. listed for 300 watt lamps, 2400 watts per circuit
- Made in the USA





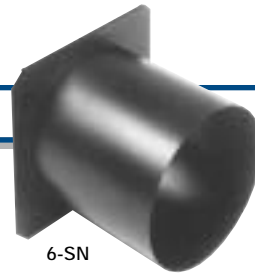
## GEL FRAME

A metal or plastic frame used to add support to color media on a luminaire. Available for most Altman and other lighting fixtures.



Catalog No.	Description & Applicable Fixture
<b>MCF</b>	3 3/8" x 3 3/8": MF, ME, MP, MAC
<b>100-CF</b>	3 3/4" x 3 3/4": 100
<b>3.5Q-CF</b>	4 1/8" x 4 1/8": 3.5Q
<b>4.5-CF</b>	6 1/4" x 6 1/4": 4.5, S6-20 thru -50, PAR46, R3C
<b>6-CF</b>	7 1/2" x 7 1/2": 65Q, 165Q, 1KAF, 360Q, S6-12 S6-1535Z, S6-3055Z, PAR38, PAR56
<b>8-CF</b>	10" x 10": 75Q, 175Q, PAR64, Outdoor-Par Series
<b>TEN-CF</b>	12" x 12": S6-10
<b>TWE-CF</b>	14" x 14": S6-5
<b>153-CF</b>	10 1/2" x 10 1/2": 153
<b>154/160-CF</b>	15 3/4" x 16": 154, 160
<b>155-CF</b>	19" Diameter, 2 Piece Black: 155
<b>161-CF</b>	16" Diameter, 2 Piece Black: 161
<b>R40-CF</b>	5 3/4" x 6 3/4": R40
<b>R40-COMBO</b>	5 3/4" x 6 3/4", 2 Piece: R40
<b>56B-CF</b>	7 3/4" x 8": PAR56-B
<b>56B-COMBO</b>	7 3/4" x 8", 2 Piece: PAR56-B
<b>64B-CF</b>	8 3/4" x 9 1/2": PAR64-B
<b>64B-COMBO</b>	8 3/4" x 9 1/2", 2 Piece: PAR64-B
<b>ZS-CF</b>	4 3/4" x 4 3/8": Zip Strip (one frame per 2 lamps)
<b>JS-CF</b>	4 1/16" x 3 5/16": Jazz Strip (one frame per 2 lamps)
<b>MICS-CF</b>	2 5/8" x 20": Micro Strip (one frame per 10 lamps)
<b>GC-CF</b>	8 3/4" x 13", 2 Piece Black: Ground Cyc
<b>FC-CF</b>	11 1/2" x 10 1/4" Black: Focusing Cyc, EconoCyc
<b>SC-CF</b>	15 1/2" x 15 7/8", 2 Piece Black: SKY-CYC Series
<b>SL-JR-CF</b>	8 3/4" x 8 3/4", 2 Piece Black: SOFT-LITE-JR
<b>SL-CF</b>	8 3/4" x 19", 2 Piece Black: SOFT-LITE
<b>QL-CF</b>	4 1/4" x 6 x 3 1/2" deep, 3 Piece Black: Q-LITE-JR, Q-LITE
<b>F3-FF</b>	5" Diameter, Hinged Black: 300L
<b>F4-FF</b>	6 5/8" Diameter, Hinged Black: 650L
<b>F5-FF</b>	7 3/4" Diameter, Hinged Black: 1000L, 575SE
<b>F7-FF</b>	9" Diameter, Hinged Black: 1000S, 2000L, 1200SE
<b>F10-FF</b>	13" Diameter, Hinged Black: 2000S, 5000L, 2500SE, UV-703
<b>F12-FF</b>	15 1/2" Diameter, Hinged Black: 5000S, 4000SE

Specifications subject to change without notice



## TOP HAT

Snoots, or top hats, are devices to reduce light spill. This accessory is available for most Altman lighting fixtures.

Catalog No.	Description & Applicable Fixture
<b>100-SN</b>	3 3/4" x 3 3/4": 100
<b>3.5Q-SN</b>	4 1/8" x 4 1/8": 3.5Q
<b>4.5-SN</b>	6 1/4" x 6 1/4": 4.5Q, PAR46, S6-20 thru -50
<b>6-SN</b>	7 1/2" x 7 1/2": 65Q, 165Q, 1KAF, 360Q, PAR38, PAR56, S6-12, S6-1535Z, S6-3055Z
<b>8-SN</b>	10" x 10": 75Q, 175Q, PAR64
<b>TEN-SN</b>	12" x 12": S6-10
<b>OD-P64-SN</b>	6 3/4" Combination Snoot/Color Frame Holder, Black (8-CF included): Outdoor-Par Series
<b>ODC-SN-SHORT</b>	1 1/2" Short Nose Combination Snoot/Color Frame Holder, Black: Outdoor-Par Series
<b>F3-SN</b>	2 in 1 Set: 300L
<b>F4-SN</b>	2 in 1 Set: 650L
<b>F5-SN</b>	2 in 1 Set: 1000L, 575SE
<b>F7-SN</b>	3 in 1 Set: 1000S, 2000L, 1200SE
<b>F10-SN</b>	3 in 1 Set: 2000S, 5000L, 2500SE, UV-703
<b>F12-SN</b>	3 in 1 Set: 5000S, 4000SE

## GOBO HOLDER

Supports for positioning patterns, or templates, in the optical center of ellipsoidal spotlights. A steel channel pattern holder is available for most ellipsoidals. An aluminum holder with three tabs or sandwich style is also available.

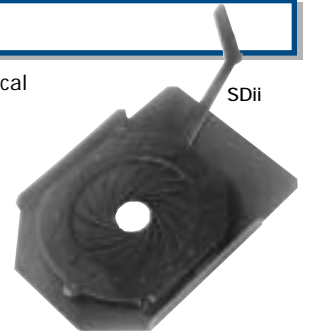


Catalog No.	Description & Applicable Fixture
<b>MAPH</b>	1 1/4" Diameter Image Area For Metal or Glass Gobos: MAC, ME
<b>3.5Q-PH</b>	2" Diameter Image Area: 3.5Q
<b>360-PH</b>	2 3/4" Diameter Image Area: 360Q, S6 Series, 4.5
<b>1KL6-PH</b>	2 3/4" Diameter Image Area: S6 Series

## DROP-IN-IRIS

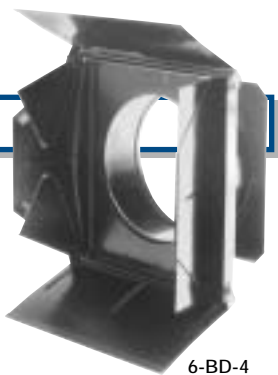
A plate that contains an iris, (a mechanical means of varying the diameter of a beam of light), which can easily be inserted or removed from an ellipsoidal spotlight.

Catalog No.	Description & Applicable Fixture
<b>MADii</b>	Drop-in Iris: MAC, ME
<b>SDii</b>	Drop-in 3" Iris: S6 Series
<b>S4Dii</b>	Drop-in 3" Iris: ETC™ S4-Series

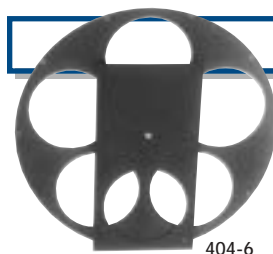


## BARNDOORS

An apparatus with adjustable flaps, or "barn doors" that are used to control light spill in a controlled manner. This item is available for most Altman luminaires.



Catalog No.	Description & Applicable Fixture
<b>MBD</b>	4 Leaf: MF, MP
<b>100-BD</b>	2 Leaf: 100
<b>6-BD-4</b>	4 Leaf: 65Q, 165Q, 1KAF, PAR38, PAR56
<b>8-BD-4</b>	4 Leaf: 75Q, 175Q, PAR64, PAR64-AL,
<b>QL-JR-BD4</b>	4 Leaf: Q-LITE-JR
<b>QL-BD4</b>	4 Leaf: Q-LITE
<b>F3-BD4</b>	4 Leaf: 300L
<b>F4-BD4</b>	4 Leaf: 650L
<b>F5-BD4</b>	4 Leaf: 1000L, 575SE
<b>F5-BD8</b>	8 Leaf: 1000L, 575SE
<b>F7-BD4</b>	4 Leaf: 1000S, 2000L, 1200SE
<b>F7-BD8</b>	8 Leaf: 1000S, 2000L, 1200SE
<b>F10-BD4</b>	4 Leaf: 2000S, 5000L, 2500SE, UV-703
<b>F10-BD8</b>	8 Leaf: 2000S, 5000L, 2500SE, UV-703
<b>F12-BD4</b>	4 Leaf: 5000S, 4000SE
<b>F12-BD8</b>	8 Leaf: 5000S, 4000SE



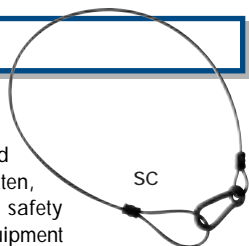
## COLOR WHEELS

A wheel-like device to which 5 colors of gel can be attached. These wheels are rotated by a motor in such a manner that any one specific color gel can be placed in front of a luminaire with relative ease.

Catalog No.	Description & Applicable Fixture
<b>100-MCW</b>	Motorized: 100
<b>404-4.5</b>	Motorized: 4.5 Series, S6-20 thru -50, Par 46
<b>404-6</b>	Motorized: 65Q, 165Q 1KAF, 360Q, S6-12, S6-1535Z, S6-3055Z, PAR38, PAR56
<b>404-8</b>	Motorized: 75Q, 175Q, PAR64

## SAFETY CABLE

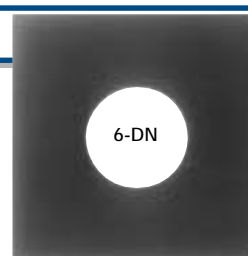
A steel cable that has a clip on one end and a loop on the other. It is intended to be threaded around a piece of hanging equipment and around a support structure, such as a pipe batten, and then clipped to its loop. It then acts as a safety support should the primary support for the equipment fail.



Catalog No.	Description & Applicable Fixture
<b>SC</b>	36" Safety Cable with Spring Clip: For All Fixtures

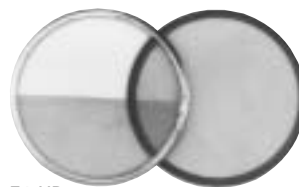
## DONUTS

A metal plate used to increase the clarity of patterns in an ellipsoidal spotlight by reducing halation and sharpening the image. Available for most Altman ellipsoidal spotlights.



Catalog No.	Description & Applicable Fixture
<b>3.5Q-DN</b>	4 1/8" x 4 1/8" w/ 1 1/4" Hole: 3.5Q
<b>4.5-DN</b>	6 1/4" x 6 1/4" w/ 2 1/2" Hole: 4.5Q, S6-20 thru -50
<b>6-DN</b>	7 1/2" x 7 1/2" w/ 3" Hole: 360Q, S6-12, S6-1535, S6-3033Z,
<b>8-DN</b>	10" x 10" w/ 4" Hole

## SCRIMS



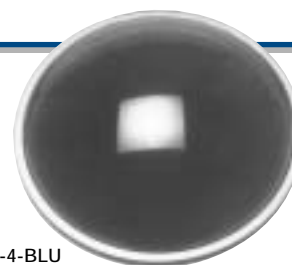
A round, framed metal screen, available in various densities, that acts as a dimmer when placed in front of a luminaire. They are also available so that only half of the frame is screened, allowing for only a portion of the light to be dimmed.

Catalog No.	Description & Applicable Fixture
<b>F3-*</b>	5" Diameter: 300L
<b>F4-*</b>	6 5/8" Diameter: 650L
<b>F5-*</b>	7 3/4" Diameter: 1000L, 575SE
<b>F7-*</b>	9" Diameter: 1000S, 2000L, 1200SE
<b>F10-*</b>	13" Diameter: 2000S, 5000L, 2500SE, UV-703
<b>F12-*</b>	15 1/2" Diameter: 5000S, 4000SE

\* To order scrims, substitute the following:  
**FS** = Full Single Density, **HS** = Half Single Density,  
**FD** = Full Double Density, **HD** = Half Double Density, or  
**SC-SET** = one each of the four density types.

## ROUNDELS

Heat resistant colored glass roundels are used in border, cyc and footlights to provide permanent color washes. Roundels are also stocked as spread beam (50°) for smooth textured lighting effects.



Catalog No.	Description & Applicable Fixture
<b>RNDL-4-*</b>	4" Smooth Roundel: DF-400, 520
<b>RNDL-5-*</b>	5 5/8" Smooth Roundel: DF-558, 528, R40
<b>RNDL-5-50-*</b>	5 5/8" 50° Smooth Roundel: DF-558, 528, R40
<b>RNDL-7-*</b>	7 1/8" Smooth Roundel: 537, PAR56-B, PAR64-B
<b>RNDL-7-50-*</b>	7 1/8" 50° Smooth Roundel: 537, PAR56-B, PAR64-B
<b>18-0110</b>	8" Very Narrow Spot Lens: SP Series, Outdoor-Par Series
<b>18-0111</b>	8" Narrow Spot Spread Lens: SP Series, Outdoor-Par Series
<b>18-0112</b>	8" Medium Flood Spread Lens: SP Series, Outdoor-Par Series
<b>18-0113</b>	8" Wide Flood Spread Lens: SP Series, Outdoor-Par Series
<b>18-0114</b>	8" Very Wide Flood Spread Lens: SP Series, Outdoor-Par Series

\* To order roundels, substitute the following:  
**AMB** = amber, **BLU** = blue, **CLR** = clear, **GRN** = green, **RED** = red  
 Specifications subject to change without notice